ABSTRACT

A method and apparatus for improved channel estimation in high rate digital data communications systems, particularly packet data communications systems, wherein a channel estimator for a packet data communications receiver includes an input to receive data for symbols of a data packet transmitted over a channel to the receiver; a memory to store the received symbol data; a training sequence determiner to determine a training sequence using one or more variable data portions or fields of the data packet; and an adaptive filter coupled to the memory and to the training sequence determiner and configured to use the received symbol data and the training sequence to determine an estimate of a response of the channel.